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AMENDMENTS TO SPECIFICATION

In the Specification:

On page 31, please amend the paragraph, lines 15-29, as follows:

The primary DNA, 5'-/5-ThiolMC6-D/ACG CAA CTT CGG GCT CTT - 3' (SEQ ID NO: 1), were purchased from Integrated DNA Technologies, Inc. (IDT), Coraville, IA. All DNA strands were used as received from the manufaturer. The primary DNA was dissolved in water at the concentration of 1μg/mL and divided into smaller aliquots of 50 μL, and stored at -20°C. When a portion of this solution was used, an aliquot was reduced by placing it in a 40 mM buffer solution (0.17 M sodium phosphate, pH 8) having dithiothreitol (DTT) for 16 hr. The oligonucleotides were separated from the by-products of the DTT reaction using size exclusion chromatography (NAP 10 column from Pharmacia Biotech) following the manufactures instructions. 10 mM sodium phosphate buffer (pH 6.8) was used to equilibrate the column and to elute the oligonucleotides. The concentration of the resulting DNA solution was calculated from the absorbance of the solution at 260 mm. In the case of primary DNA (i.e., the DNA used to form the master), 1M potassium phosphate buffer solution (pH 3.8) was added to the DNA solution to increase the ionic strength of the solution. The final concentration of DNA was 4-5 μM.

On page 32, please amend the paragraph, lines 1-5, as follows:

In the case of secondary DNA solution (i.e., DNA used to form the complement image), 1M NaCl in TE buffer (10mM Tris buffer pH 7.2 and 1mM EDTA) was added to increase the ionic strength of the solution. The secondary DNA used was purchased from Integrated DNA Technologies, Inc. (IDT), Coraville, IA and had the following structure 5'-/5ThiolMC6-D/AAG AGC CCG AAG TTG CGT – 3' (SEQ ID NO: 2).